(ii) with a compound of formula (XV),

wherein R₂ is a group as defined above for formula (XIV);

5 (b) reacting the obtained carbamate derivative of formula (XVI)

(XVI)

wherein R_1 and R_2 is a group as defined above, with 3-(dimethylamino)propylamine in the presence of a catalyst;

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(c) reacting the obtained ergoline-8β-carboxamide derivative of formula (XVII)

(XVII)

wherein R₂ is a group as defined above, with ethyl isocyanate in the presence of ligand(s) and Ib and IIb metal group salt catalyst;

(d) reacting the obtained protected N-acylurea derivative of formula (XVIII)

(XVIII)

wherein R₂ is a group as defined above, with a strong aqueous inorganic acid;

(e) reacting the obtained secondary amine of formula (XIX)

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with an electrophyl allyl alcohol derivative in the presence of a palladium or nickel containing catalyst and optionally in the presence of ligand(s) to form cabergoline (I).

- 2. A process according to claim 1 wherein R_1 is methyl and R_2 is tert-butyl.
- 3. A process according to any of claims 1 to 2 wherein step (a) is carried out at a temperature of from 0°C to 50°C in the presence of 4-dimethylaminopyridine catalyst in a hydrocarbon halide solvent.
- 4. A process according to any of claims 1 to 2 wherein step (b) is carried out at a temperature of from 50°C to 70°C in an C₁₋₆ alkyl alcohol solvent in the presence of 2-hydroxypyridine catalyst.
- 5. A process according to any of claims 1 to 2 wherein step (c) is carried out in hydrocarbon halide solvent, in the presence of copper(I) chloride and/or copper(I) bromide and/or copper(I) iodide catalysts and triphenylphosphine or tri-p-tolylphophine ligand at a temperature of from 30°C to 50°C.
- 6. A process according to any of claims 1 to 2 wherein step (d) is carried out at a temperature of from 40°C to 80°C in aqueous hydrochloric acid.
 - 7. A process according to any of claims 1 to 2 wherein at step (e) the electrophyl allyl alcohol derivative is allyl acetate, the catalyst is tetrakis(triphenylphosphine)palladium(0), and the reaction is carried out in an aromatic hydrocarbon solvent at a temperature of from 20°C to 50°C.

8. Compounds of formula (XVI)

$$O$$
 C
 OR_1
 H_{I_1}
 $N-COOR_2$
 R_2OOC-N
 (XVI)

- wherein R_1 represents a C_{1-4} alkyl group and R_2 represents an optionally substituted C_{1-6} alkyl group.
 - 9. Compound according to claim 8 wherein R_1 is methyl and R_2 is tert-butyl.
- 10 10. Compound of formula (XVII)

(XVII)

wherein R_2 represents an optionally substituted C_{1-6} alkyl group.

15 11. Compound according to claim 10 wherein R₂ is tert-butyl.

12. Compounds of formula (XVIII)

(XVIII)

wherein R_2 represents an optionally substituted $C_{1\text{-}6}$ alkyl group.

13. Compound according to claim 12 wherein R₂ is tert-butyl.

14. Compound of formula (XIX)

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10 (XIX)

15. The polymorphic amorphous form of Cabergoline (I).

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- 16. Process for the preparation of the polymorphic amorphous form of Cabergoline (I) wherein the chromatographically purified oily Cabergoline (I) is dissolved in a suitable organic solvent and from the obtained solution the solvent is partially removed several times in vacuum at a temperature of from 0°C to 30°C, until not oily but solid product is obtained.
- 17. A process according to claim 16 wherein the solvent is acetone, methyl acetate or dichloromethane.